

AMENDMENTS TO THE ABSTRACT

Please add the following abstract to the end of the application:

A signal separation method for separation of source signals from a composite signal expresses the composite signal as a series of values of signal amplitude. The source signals have periodicities similar or equal to p . The composite signal is portioned into sections which provide respective rows of a matrix X , in which successive rows represent successive sections. A singular value decomposition of the matrix X is performed to obtain two singular vector matrices U , V and a singular value matrix λ . An independent component analysis is performed on one of the singular vector matrices U , V to obtain an independent component matrix $UR_2^T, R_1^T V$ and an associated component matrix $R_2 \lambda V, U \lambda R_1$. One of the component matrices $UR_2^T, U \lambda R_1$ contains estimated separated signal modulation envelopes and the other component matrix $R_2 \lambda V, R_1^T V$ contains estimated separated cyclets.